

Abstract

An alternative cover for landfill may be formed from a slurry mixture of water, cementitious binder, adhesion enhancing admixture and fiber. These constituents may be mixed and applied to cover landfilled wastes, granular material piles or for soil erosion control. The cover will harden to minimize water infiltration, wind blown dust, odor and affinity to birds, flies and other insects. The water may include tap water, landfill leachate and wastewater. The binder may include Portland cement, blended cement, cement kiln dust, class C fly ash, and /or calcium sulphate hemihydrate. The adhesion enhancing admixture includes water-dispersible polymers. The fibers may comprise shredded paper or wood or plastic fibers.